



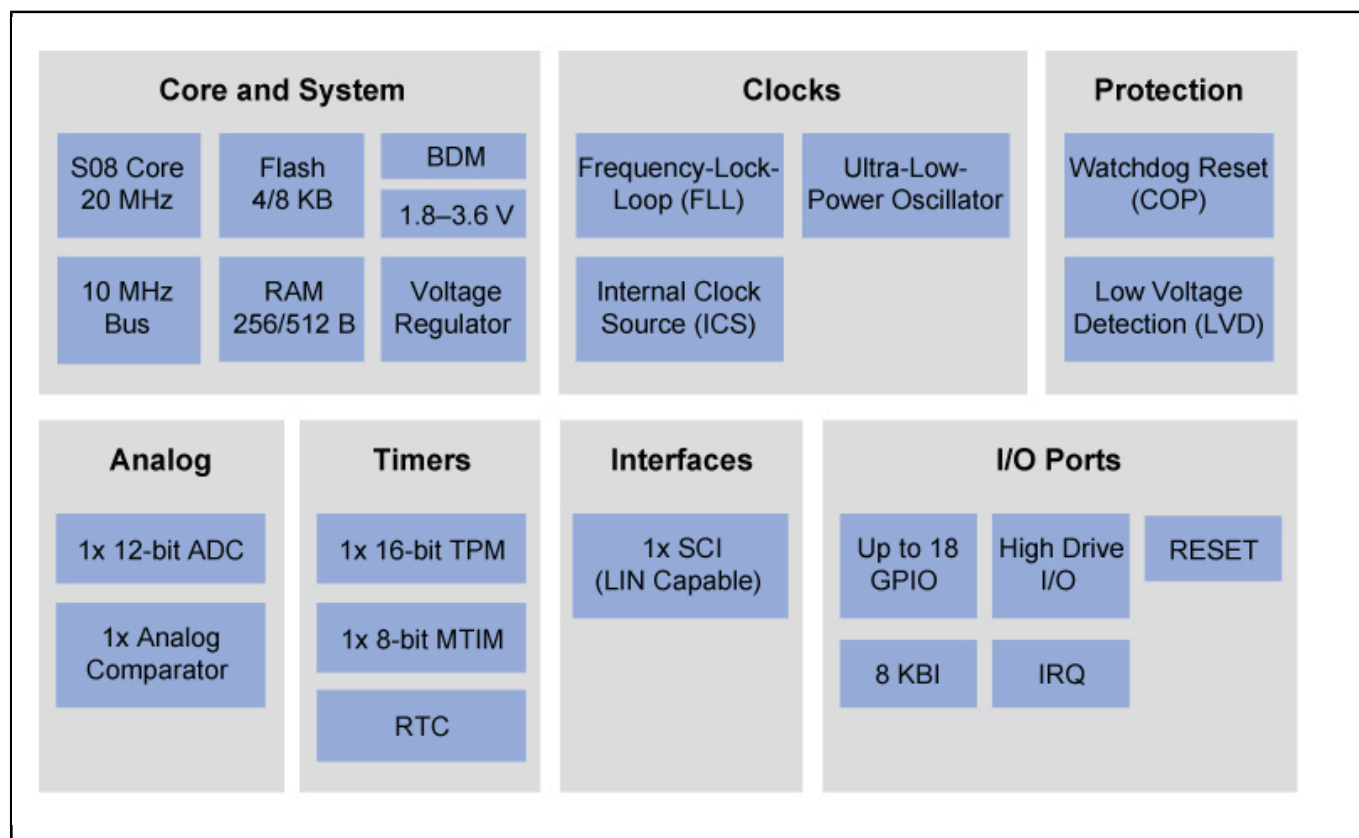
8-bit 3V Low-Power MCUs

S08QL

Last Updated: Mar 5, 2025

The S08QL family provide extreme energy efficiency at a voltage range of 1.8 to 3.6V, suitable for cost-effective, battery sensitive, portable, low-power applications. QL8 offers low-power features such as two ultra-low-power stop modes, low-power run and wait for modes, 6 μ s wake-up time, ultra-low-power external oscillator and clock gating registers to disable clocks to unused peripherals. Besides low-power, QL8 supports up to 8 KB of flash memory. It consists of an 8-bit module timer, a 16-bit timer/PWM (TPM), UART, RTC, 12-bit ADC and analog comparator. QL8 can be powered down to 1.8V and still able to operate at maximum 20 MHz CPU speed.

S08QL MCU Block Diagram Block Diagram



View additional information for [8-bit 3V Low-Power MCUs](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.